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APPLICATION NO.	F	TILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/695,300	10/27/2003		Jai K. Baek	212/536	4185	
23371	7590	07/26/2005		EXAM	EXAMINER	
CROCKETT & CROCKETT				FREAY, CHAP	RLES GRANT	
24012 CAL	LE DE LA	A PLATA		ART UNIT	PAPER NUMBER	
SUITE 400				AKI ONII	PAPER NUMBER	
LAGUNA F	IILLS, C.	A 92653		3746		

DATE MAILED: 07/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summany		10/695,300	BAEK, JAI K.				
	Office Action Summary	Examiner	Art Unit				
		Charles G. Freay	3746				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the c	orrespondence address				
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reper population of the provision of the period for reply is specified above, the maximum statutory period into the period for reply will, by statutive to reply within the set or extended period for reply will, by statutive period by the Office later than three months after the mailing department adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tim ly within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONED	ely filed will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).				
Status							
1)🖂	Responsive to communication(s) filed on <u>07 J</u>	l <u>une 2005</u> .					
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.						
3)□							
Dispositi	ion of Claims						
5)⊠ 6)⊠	Claim(s) 1,3-10,13,14,16-24 and 27-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 14,16-24, 27 and 29 is/are allowed. Claim(s) 1, 3-10, 13 and 28 is/are rejected. Claim(s) is/are objected to.						
Applicati	ion Papers						
10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The section is objected to by the Examine The section is objected to by the Examine The section is objected to be a section of the	cepted or b) objected to by the E drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
12) [a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureasee the attached detailed Office action for a list	ts have been received. ts have been received in Application brity documents have been receive u (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachmen	t(s)						
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

This office action is in response to the amendment and Terminal Disclaimer of June 7, 2005. In making the below rejections and/or rejections the examiner has considered and addressed each of the applicants arguments.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-10, 13, 18 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lederer (French reference FR 2 542 983) in view of Gallagher (USPN 3,200,839).

Lederer discloses a valve comprising a valve body (116, 132see Fig. 7) of non-conformable material, an upper inwardly extending flange (150) having a bottom surface serving as a valve seat (151), a plunger extending through a bore located in the flange, the plunger having an upper segment (156) which extends through and is moveable within the bore and a lower segment (152) with a spherical valve seating surface and a disk (cylindrical portion at bottom of 152) from a lower surface of which an extension extends and a spring (154). Lederer does not disclose that the plunger seating surface is frustoconical with a ring of conformable material disposed between the frustoconical

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surface and the valve seat. Gallagher discloses a valve having a valve seat (29) and a valve member with two frustoconical surfaces (52, 54) and a ring of conformable material (34) which is located between the seat (29) and the frustoconical surface (54). At the time of the invention it would have been obvious to one of ordinary skill in the art to substitute a frustoconical seating surface such as taught by Gallagher for the spherical surface of Lederer in order as an equivalent seating surface having improved sealing due to the conformability of the ring member.

Allowable Subject Matter

Claims 14, 16-24, 27 and 29 are allowed.

The examiner notes that if claim 1 were amended to set forth that the conformable ring was also in contact with the frustoconical surface when seated then the claim would be favorably considered.

Response to Arguments

Applicant's arguments with respect to claims 1, 3-13 and 28 have been considered but are most in view of the new ground(s) of rejection.

Applicant's arguments, see page 6 under the heading "Claim rejection 35 USC 112", filed June 7, 2005, with respect to the rejections set forth under that statute have been fully considered and are persuasive. The rejections of the claims has been withdrawn.

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The terminal disclaimer filed June 7, 2005 has overcome the Double Patenting rejections set forth in the previous office action.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles G. Freay whose telephone number is 571-272-4827. The examiner can normally be reached on Monday through Friday 8:30 A.M. to 5:30 P.M..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Thorpe can be reached on 571-272-4444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charles G Freay / Primary Examine Art Unit 3746

CGF July 21, 2005